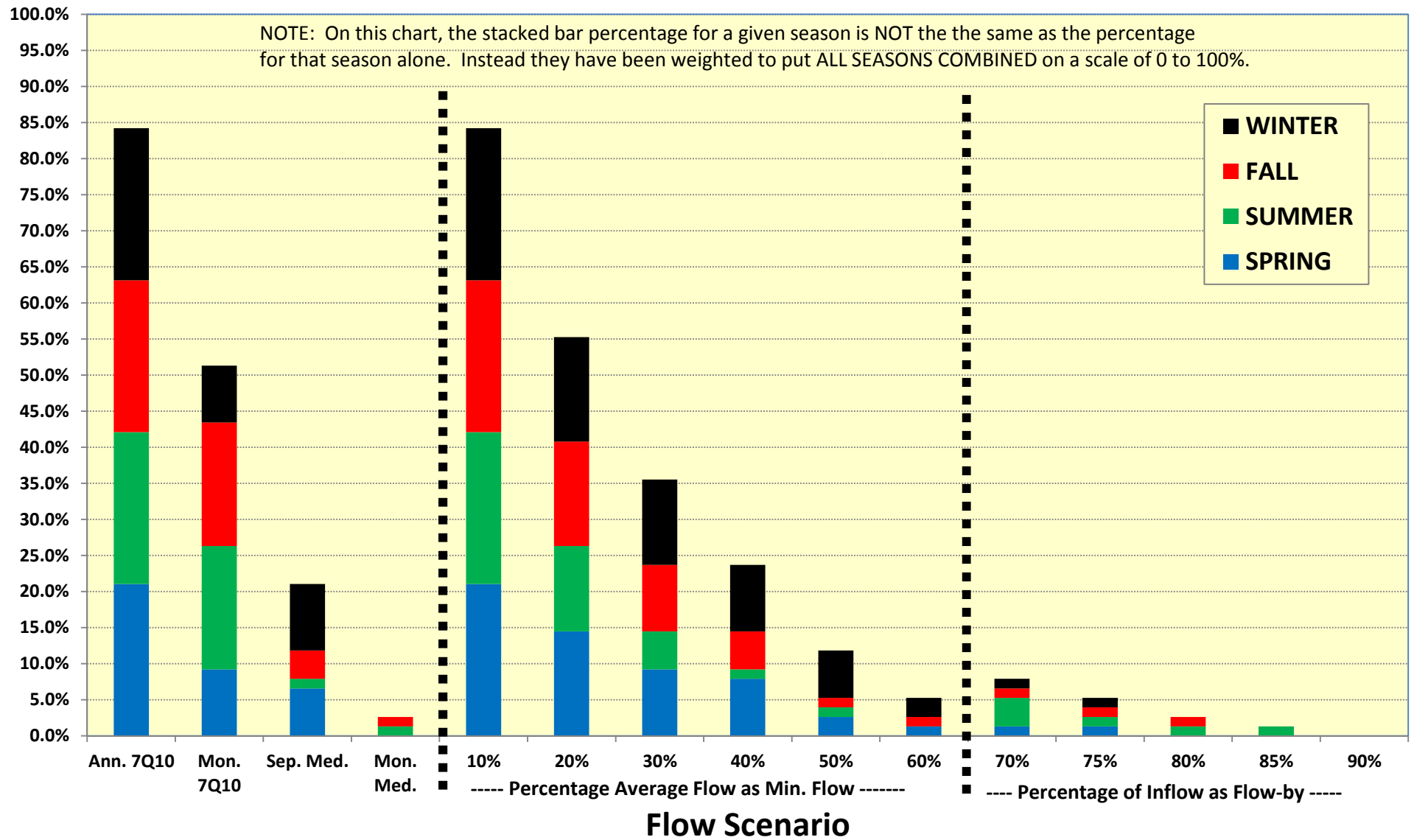


Whiteoak Creek, bypass site - % (weighted equally for each season) of Species/Life Stages with < 80% of Unregulated Index B WUA Value



Whiteoak Creek, bypass site - % (weighted equally for each season) of Species/Life Stages with > 120% of Unregulated Index B WUA Value

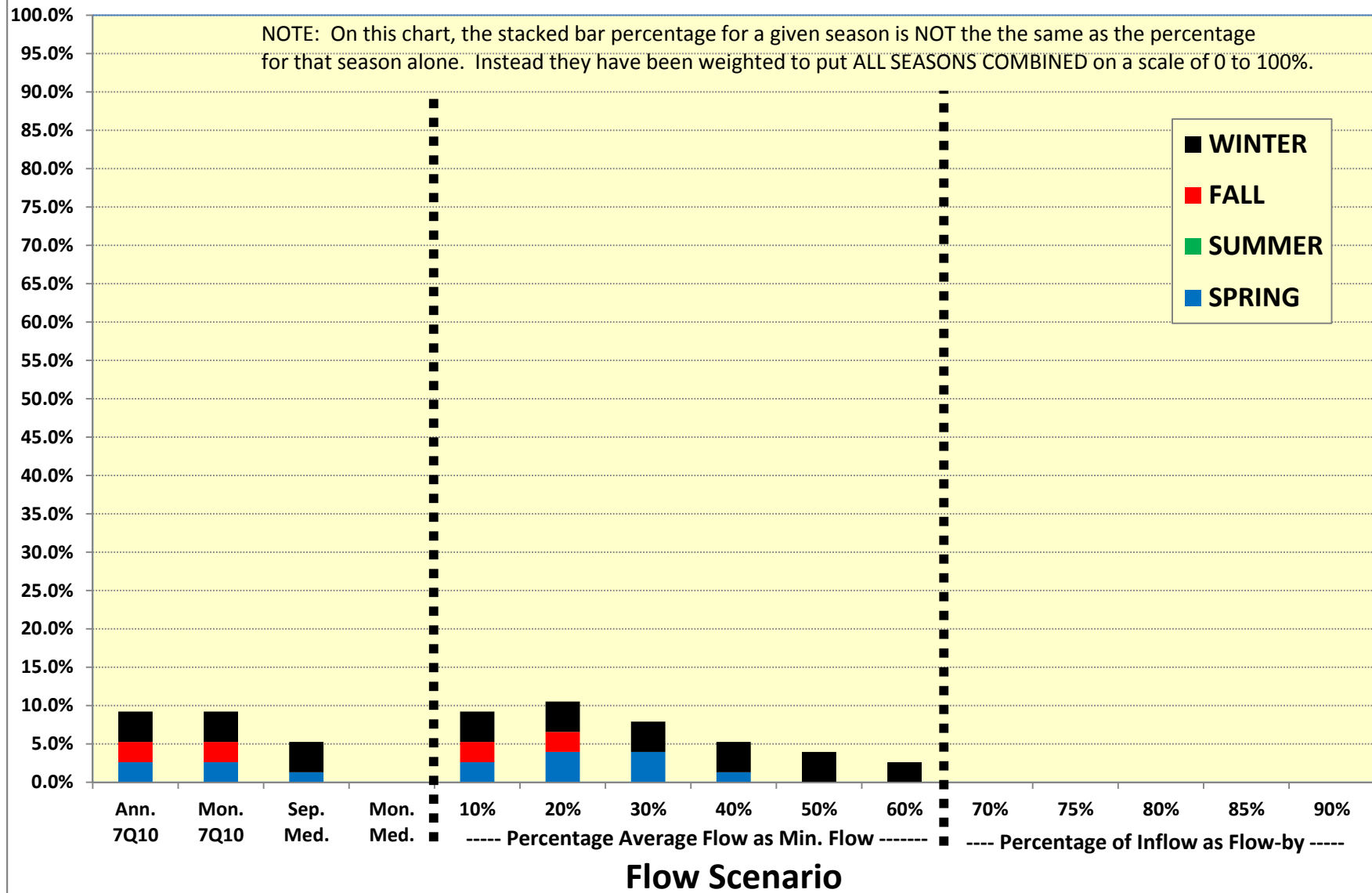


Table shows percentage of unregulated Index B value achieved by flow scenario

Season **SPRING**

April - June

Highlighted cells are those >120% or < 80%

Guild		Traditional Minimum Flow				Minimum = Percent Mean Annual Flow						Percent Flow-by				
		Ann. 7Q10	Mon. 7Q10	Sep. Med.	Mon. Med.	10%	20%	30%	40%	50%	60%	70%	75%	80%	85%	90%
Shallow	EPHEM	71.2%	95.6%	98.4%	101.2%	69.0%	84.9%	93.3%	97.8%	100.1%	101.0%	98.8%	99.2%	99.5%	99.7%	99.9%
	PLECO	47.2%	85.0%	90.5%	97.2%	44.5%	66.2%	80.6%	89.4%	93.8%	95.8%	94.0%	95.3%	96.5%	97.6%	98.4%
	NHSJ	26.1%	66.1%	73.8%	95.8%	23.6%	42.2%	59.7%	71.7%	81.5%	89.6%	86.6%	89.3%	91.9%	94.3%	96.4%
	RBTF	114.1%	119.0%	117.2%	106.7%	113.1%	120.8%	120.9%	117.7%	114.2%	111.3%	109.2%	107.7%	106.2%	104.6%	103.1%
	BNDJ	70.3%	96.6%	99.7%	105.2%	67.9%	85.3%	94.0%	98.8%	102.9%	105.0%	99.2%	99.6%	99.8%	100.0%	100.1%
	BNDF	132.5%	120.0%	117.2%	105.3%	132.6%	129.5%	122.5%	118.1%	113.2%	109.9%	109.1%	107.5%	105.9%	104.4%	102.9%
	BNDS	62.8%	99.4%	102.8%	105.1%	59.1%	83.9%	97.0%	102.0%	105.8%	106.2%	100.5%	100.6%	100.7%	100.7%	100.5%
	BRTJ	54.8%	85.2%	90.6%	101.7%	52.7%	68.4%	80.4%	89.1%	95.6%	99.4%	95.2%	96.5%	97.6%	98.4%	99.1%
	BRTF	35.7%	74.6%	81.5%	99.9%	33.2%	53.1%	68.5%	79.6%	88.5%	95.3%	90.9%	93.1%	94.9%	96.5%	97.9%
	LNDX	26.7%	66.1%	73.4%	94.4%	24.5%	43.2%	59.8%	71.5%	81.0%	87.8%	86.0%	88.8%	91.4%	93.7%	96.0%
	CRCA	60.4%	92.5%	97.1%	103.1%	57.9%	76.9%	88.8%	96.0%	100.3%	102.4%	98.0%	98.7%	99.1%	99.5%	99.7%
	CRCY	132.6%	123.9%	120.0%	104.7%	131.7%	133.5%	127.6%	121.2%	114.7%	109.7%	110.4%	108.5%	106.6%	104.9%	103.2%
Deep	TRIC	69.9%	92.8%	95.7%	99.4%	67.9%	82.5%	90.5%	95.1%	97.7%	98.9%	97.4%	98.0%	98.6%	99.0%	99.4%
	MTSX	46.1%	76.8%	81.6%	95.0%	43.9%	60.6%	72.9%	80.3%	86.3%	90.5%	90.2%	92.1%	93.9%	95.6%	97.1%
	NHSA	34.2%	73.0%	79.1%	94.9%	31.5%	53.2%	68.0%	77.5%	84.4%	89.7%	88.6%	91.0%	93.0%	95.0%	96.8%
	RBTA	61.5%	88.2%	92.0%	100.1%	59.6%	75.0%	85.0%	91.0%	95.4%	98.6%	95.8%	96.8%	97.7%	98.5%	99.1%
	RBTS	2.2%	31.5%	41.5%	83.3%	1.8%	8.6%	22.2%	38.7%	53.6%	65.8%	69.4%	74.9%	80.1%	85.1%	90.3%
	BRTA	68.1%	93.5%	96.7%	101.7%	65.9%	81.8%	90.9%	96.0%	99.2%	101.0%	98.1%	98.7%	99.1%	99.4%	99.7%
	BRTS	18.7%	59.4%	67.1%	92.5%	16.5%	35.5%	52.6%	65.0%	76.1%	84.5%	82.9%	86.3%	89.4%	92.3%	95.0%
AVERAGE		59.8%	86.3%	90.3%	99.3%	57.7%	72.9%	82.9%	89.3%	93.9%	97.0%	94.7%	95.9%	96.9%	97.9%	98.7%
MEDIAN		60.4%	88.2%	92.0%	100.1%	57.9%	75.0%	85.0%	91.0%	95.6%	98.9%	95.8%	96.8%	97.7%	98.5%	99.1%
MINIMUM		2.2%	31.5%	41.5%	83.3%	1.8%	8.6%	22.2%	38.7%	53.6%	65.8%	69.4%	74.9%	80.1%	85.1%	90.3%
MAXIMUM		132.6%	123.9%	120.0%	106.7%	132.6%	133.5%	127.6%	121.2%	114.7%	111.3%	110.4%	108.5%	106.6%	104.9%	103.2%

Season	SUMMER
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Numbers in **Red** indicate low amount of habitat (seasonal unregulated index B < 1,000).

[illegible]

Table shows percentage of unregulated Index B value achieved by flow scenario

Season **SUMMER**

July - September

Highlighted cells are those >120% or < 80%

Guild		Traditional Minimum Flow				Minimum = Percent Mean Annual Flow						Percent Flow-by				
		Ann. 7Q10	Mon. 7Q10	Sep. Med.	Mon. Med.	10%	20%	30%	40%	50%	60%	70%	75%	80%	85%	90%
Shallow	EPHEM	73.8%	81.2%	99.6%	99.6%	71.6%	88.0%	95.9%	99.2%	100.5%	101.0%	95.1%	96.2%	97.2%	98.0%	98.8%
	PLECO	53.3%	64.0%	97.3%	97.2%	50.3%	74.8%	89.4%	96.6%	99.2%	100.3%	89.3%	91.6%	93.6%	95.4%	97.1%
	NHSJ	34.3%	44.9%	89.0%	88.9%	31.1%	55.6%	76.2%	87.4%	94.4%	99.2%	79.9%	83.7%	87.3%	90.8%	94.0%
	RBTF	100.7%	103.6%	104.3%	104.2%	99.9%	106.6%	106.7%	104.5%	102.7%	101.5%	102.9%	102.6%	102.2%	101.7%	101.2%
	BNDJ	72.7%	80.9%	100.4%	100.4%	70.2%	88.1%	96.3%	99.8%	102.1%	103.1%	95.2%	96.4%	97.3%	98.1%	98.8%
	BNDF	115.5%	114.7%	104.2%	104.2%	115.6%	112.8%	107.4%	104.7%	102.4%	101.1%	106.0%	105.0%	103.9%	102.9%	101.9%
	BNDS	64.1%	75.8%	101.8%	101.8%	60.4%	85.6%	97.7%	101.4%	103.5%	103.4%	94.5%	95.9%	97.1%	98.0%	98.8%
	BRTJ	61.2%	68.8%	96.1%	96.1%	58.8%	76.2%	88.4%	95.2%	99.1%	101.1%	89.8%	91.9%	93.8%	95.5%	97.2%
	BRTF	43.4%	53.7%	92.3%	92.2%	40.4%	64.5%	81.3%	90.9%	96.8%	100.6%	84.0%	87.2%	90.1%	92.8%	95.4%
	LNDX	35.3%	45.8%	89.3%	89.2%	32.4%	57.0%	76.8%	87.8%	94.6%	98.7%	80.3%	84.1%	87.6%	90.9%	94.1%
	CRCA	64.1%	73.0%	99.1%	99.0%	61.4%	81.6%	92.9%	98.4%	100.9%	101.9%	92.5%	94.2%	95.7%	96.9%	98.1%
	CRCY	113.4%	114.5%	105.2%	105.2%	112.7%	114.1%	109.7%	105.8%	102.8%	100.9%	106.4%	105.4%	104.3%	103.3%	102.2%
Deep	TRIC	73.9%	80.8%	98.7%	98.7%	71.8%	87.2%	94.8%	98.3%	99.8%	100.4%	94.5%	95.7%	96.8%	97.7%	98.6%
	MTSX	55.5%	64.4%	93.6%	93.5%	52.9%	72.9%	86.3%	92.7%	96.6%	98.9%	87.6%	90.0%	92.2%	94.3%	96.3%
	NHSA	42.7%	54.4%	92.5%	92.4%	39.2%	66.2%	82.8%	91.3%	96.1%	99.0%	84.5%	87.6%	90.4%	93.0%	95.6%
	RBTA	67.2%	74.4%	97.0%	97.0%	65.0%	81.8%	91.7%	96.4%	99.0%	100.6%	92.1%	93.7%	95.2%	96.6%	97.8%
	RBTS	4.3%	8.8%	66.9%	66.7%	3.5%	16.9%	40.4%	63.6%	79.3%	90.4%	57.1%	64.1%	71.5%	78.8%	85.9%
	BRTA	71.6%	79.1%	98.9%	98.8%	69.2%	85.9%	94.5%	98.4%	100.2%	101.1%	94.2%	95.5%	96.6%	97.6%	98.5%
	BRTS	26.4%	37.8%	85.9%	85.8%	23.2%	50.0%	71.8%	84.1%	92.6%	98.0%	76.5%	80.9%	85.0%	89.0%	92.8%
AVERAGE		61.8%	69.5%	95.4%	95.3%	59.5%	77.2%	88.5%	94.6%	98.0%	100.1%	89.6%	91.7%	93.6%	95.4%	97.0%
MEDIAN		64.1%	73.0%	97.3%	97.2%	60.4%	81.6%	91.7%	96.6%	99.2%	100.6%	92.1%	93.7%	95.2%	96.6%	97.8%
MINIMUM		4.3%	8.8%	66.9%	66.7%	3.5%	16.9%	40.4%	63.6%	79.3%	90.4%	57.1%	64.1%	71.5%	78.8%	85.9%
MAXIMUM		115.5%	114.7%	105.2%	105.2%	115.6%	114.1%	109.7%	105.8%	103.5%	103.4%	106.4%	105.4%	104.3%	103.3%	102.2%

[illegible]

Table shows percentage of unregulated Index B value achieved by flow scenario

Season **FALL**

October & November

Highlighted cells are those >120% or < 80%

Guild		Traditional Minimum Flow				Minimum = Percent Mean Annual Flow						Percent Flow-by				
		Ann. 7Q10	Mon. 7Q10	Sep. Med.	Mon. Med.	10%	20%	30%	40%	50%	60%	70%	75%	80%	85%	90%
Shallow	EPHEM	72.4%	82.0%	99.1%	101.0%	70.2%	86.3%	94.7%	98.6%	100.4%	101.2%	97.2%	97.9%	98.5%	99.0%	99.4%
	PLECO	49.8%	63.2%	93.6%	97.7%	46.9%	69.9%	84.7%	92.7%	96.3%	97.9%	91.9%	93.6%	95.1%	96.5%	97.8%
	NHSJ	29.3%	41.3%	80.1%	92.9%	26.6%	47.5%	66.6%	78.2%	86.8%	93.6%	83.6%	86.8%	89.9%	92.8%	95.4%
	RBTF	107.3%	111.3%	110.5%	106.1%	106.3%	113.6%	113.7%	110.9%	108.2%	106.1%	105.7%	104.8%	103.9%	103.0%	102.0%
	BNDJ	71.7%	82.4%	100.6%	104.4%	69.2%	86.9%	95.6%	99.8%	103.1%	104.7%	97.8%	98.4%	98.9%	99.3%	99.6%
	BNDF	123.8%	122.4%	110.4%	105.3%	123.8%	120.9%	114.5%	111.0%	107.5%	105.2%	107.4%	106.1%	104.8%	103.5%	102.3%
	BNDS	63.8%	79.0%	103.2%	105.2%	60.0%	85.1%	98.1%	102.5%	105.5%	105.7%	98.2%	98.8%	99.3%	99.7%	99.9%
	BRTJ	57.5%	67.0%	93.0%	99.7%	55.3%	71.6%	84.0%	91.8%	97.0%	100.1%	92.7%	94.3%	95.7%	97.0%	98.1%
	BRTF	38.8%	51.4%	86.2%	97.0%	36.1%	57.7%	74.0%	84.5%	91.9%	97.6%	87.8%	90.3%	92.7%	94.8%	96.7%
	LNDX	30.1%	42.2%	80.0%	91.9%	27.6%	48.7%	66.9%	78.3%	86.6%	92.3%	83.7%	86.9%	89.9%	92.6%	95.3%
	CRCA	62.1%	73.5%	98.3%	102.1%	59.5%	79.0%	90.9%	97.4%	100.8%	102.4%	95.7%	96.8%	97.7%	98.5%	99.1%
	CRCY	122.7%	123.9%	112.2%	105.3%	121.9%	123.5%	118.2%	113.1%	108.4%	105.0%	108.1%	106.7%	105.2%	103.9%	102.5%
Deep	TRIC	71.7%	80.5%	97.1%	99.5%	69.6%	84.6%	92.5%	96.6%	98.7%	99.6%	96.1%	97.0%	97.7%	98.4%	99.0%
	MTSX	50.0%	60.7%	86.8%	93.9%	47.6%	65.7%	78.7%	85.7%	90.7%	94.1%	89.0%	91.2%	93.2%	95.1%	96.8%
	NHSA	37.6%	51.7%	84.7%	93.5%	34.6%	58.5%	74.3%	83.4%	89.4%	93.7%	86.9%	89.5%	91.9%	94.1%	96.4%
	RBTA	63.9%	73.2%	94.3%	99.2%	61.9%	77.9%	88.1%	93.5%	97.0%	99.5%	94.1%	95.4%	96.5%	97.5%	98.5%
	RBTS	2.9%	7.4%	50.1%	74.6%	2.4%	11.3%	28.4%	47.1%	62.2%	74.3%	65.7%	71.9%	77.8%	83.7%	89.2%
	BRTA	69.7%	79.3%	97.8%	101.0%	67.4%	83.6%	92.7%	97.2%	99.8%	101.2%	96.4%	97.3%	98.0%	98.7%	99.2%
	BRTS	21.6%	34.3%	74.5%	89.3%	19.0%	41.0%	60.3%	72.6%	82.6%	89.9%	80.3%	84.1%	87.6%	91.0%	94.2%
AVERAGE		60.3%	69.8%	92.2%	97.9%	58.2%	74.4%	85.1%	91.3%	95.4%	98.1%	92.5%	94.1%	95.5%	96.8%	98.0%
MEDIAN		62.1%	73.2%	94.3%	99.5%	59.5%	77.9%	88.1%	93.5%	97.0%	99.6%	94.1%	95.4%	96.5%	97.5%	98.5%
MINIMUM		2.9%	7.4%	50.1%	74.6%	2.4%	11.3%	28.4%	47.1%	62.2%	74.3%	65.7%	71.9%	77.8%	83.7%	89.2%
MAXIMUM		123.8%	123.9%	112.2%	106.1%	123.8%	123.5%	118.2%	113.1%	108.4%	106.1%	108.1%	106.7%	105.2%	103.9%	102.5%

If seasonal Index B value is < 80% of unregulated value, table shows a "1". If index B value is > 120% of unregulated, table shows a ".01".

Season **WINTER**

December - March

Numbers in **Red** indicate low amount of habitat (seasonal unregulated index B < 1,000).

Guild		Traditional Minimum Flow				Percent Mean Annual Flow						Percent Flow-by				
		Ann. 7Q10	Mon. 7Q10	Sep. Med.	Mon. Med.	10%	20%	30%	40%	50%	60%	70%	75%	80%	85%	90%
Shallow	EPHEM	1				1										
	PLECO	1				1	1	1								
	NHSJ	1	1	1		1	1	1	1	1						
	RBTF	0.01	0.01	0.01		0.01	0.01	0.01	0.01	0.01	0.01					
	BNDJ	1				1										
	BNDF	0.01	0.01	0.01		0.01	0.01	0.01	0.01	0.01	0.01					
	BNDS	1				1										
	BRTJ	1				1	1	1								
	BRTF	1		1		1	1	1	1							
	LNDX	1	1	1		1	1	1	1	1						
	CRCA	1				1	1									
	CRCY	0.01	0.01	0.01		0.01	0.01	0.01	0.01	0.01						
Deep	TRIC	1				1										
	MTSX	1	1	1		1	1	1	1							
	NHSA	1	1	1		1	1	1	1	1						
	RBTA	1				1	1									
	RBTS	1	1	1		1	1	1	1	1	1	1	1			
	BRTA	1				1										
	BRTS	1	1	1		1	1	1	1	1	1					
Total out of 19		16.03	6.03	7.03	0	16.03	11.03	9.03	7.03	5.03	2.02	1	1	0	0	0
total < 80%		16	6	7	0	16	11	9	7	5	2	1	1	0	0	0
total > 120%		3	3	3	0	3	3	3	3	3	2	0	0	0	0	0
Total out of 19		19	9	10	0	19	14	12	10	8	4	1	1	0	0	0
< 80%																
% for just this season		84.2%	31.6%	36.8%	0.0%	84.2%	57.9%	47.4%	36.8%	26.3%	10.5%	5.3%	5.3%	0.0%	0.0%	0.0%
% weighted equally by season		21.1%	7.9%	9.2%	0.0%	21.1%	14.5%	11.8%	9.2%	6.6%	2.6%	1.3%	1.3%	0.0%	0.0%	0.0%
> 120%																
% for just this season		15.8%	15.8%	15.8%	0.0%	15.8%	15.8%	15.8%	15.8%	15.8%	10.5%	0.0%	0.0%	0.0%	0.0%	0.0%
% weighted equally by season		3.9%	3.9%	3.9%	0.0%	3.9%	3.9%	3.9%	3.9%	3.9%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%

Table shows percentage of unregulated Index B value achieved by flow scenario

Season **WINTER**

December - March

Highlighted cells are those >120% or < 80%

Guild		Traditional Minimum Flow				Minimum = Percent Mean Annual Flow						Percent Flow-by				
		Ann. 7Q10	Mon. 7Q10	Sep. Med.	Mon. Med.	10%	20%	30%	40%	50%	60%	70%	75%	80%	85%	90%
Shallow	EPHEM	71.4%	99.9%	98.7%	101.0%	69.2%	85.1%	93.5%	98.0%	100.4%	101.6%	100.1%	100.2%	100.3%	100.3%	100.2%
	PLECO	45.2%	89.0%	86.6%	95.9%	42.5%	63.4%	77.1%	85.5%	89.9%	92.3%	95.4%	96.5%	97.4%	98.2%	98.9%
	NHSJ	24.1%	74.4%	68.2%	99.0%	21.8%	39.0%	55.1%	66.2%	75.8%	84.9%	91.3%	93.3%	95.1%	96.7%	98.0%
	RBTF	128.5%	129.1%	132.0%	109.0%	127.4%	136.1%	136.2%	132.6%	128.4%	124.4%	113.1%	110.9%	108.6%	106.4%	104.3%
	BNDJ	72.7%	105.7%	103.2%	107.1%	70.2%	88.2%	97.2%	102.2%	106.6%	109.3%	102.9%	102.7%	102.3%	101.9%	101.3%
	BNDF	146.6%	126.0%	129.6%	106.1%	146.7%	143.2%	135.5%	130.6%	124.9%	120.4%	111.3%	109.3%	107.4%	105.5%	103.7%
	BNDS	65.9%	109.9%	107.8%	107.2%	62.0%	87.9%	101.7%	106.9%	111.1%	111.7%	104.6%	104.1%	103.5%	102.7%	101.9%
	BRTJ	54.2%	93.5%	89.6%	103.8%	52.1%	67.6%	79.5%	88.1%	94.8%	99.5%	98.4%	99.0%	99.4%	99.7%	99.9%
	BRTF	34.5%	84.7%	79.0%	104.1%	32.2%	51.4%	66.3%	77.1%	86.1%	94.3%	96.1%	97.3%	98.3%	99.0%	99.5%
	LNDX	24.2%	72.3%	66.5%	96.7%	22.2%	39.1%	54.1%	64.8%	73.9%	81.4%	89.4%	91.6%	93.6%	95.4%	97.1%
	CRCA	60.9%	100.5%	97.9%	104.6%	58.4%	77.5%	89.5%	96.8%	101.4%	104.0%	100.4%	100.5%	100.6%	100.5%	100.4%
	CRCY	146.3%	127.4%	132.4%	105.0%	145.3%	147.2%	140.8%	133.7%	126.1%	119.4%	111.4%	109.2%	107.2%	105.3%	103.5%
Deep	TRIC	69.1%	96.1%	94.7%	99.1%	67.2%	81.6%	89.5%	94.0%	96.7%	98.2%	98.7%	99.1%	99.4%	99.7%	99.8%
	MTSX	42.6%	79.1%	75.4%	96.5%	40.6%	56.0%	67.4%	74.3%	80.1%	84.8%	91.9%	93.6%	95.1%	96.4%	97.7%
	NHSA	31.5%	77.0%	72.9%	96.2%	29.0%	49.0%	62.6%	71.4%	78.1%	84.1%	91.4%	93.2%	94.9%	96.4%	97.8%
	RBTA	60.7%	93.6%	90.8%	100.6%	58.8%	74.0%	83.9%	89.9%	94.4%	98.3%	98.3%	98.9%	99.3%	99.5%	99.9%
	RBTS	1.7%	39.7%	31.8%	88.5%	1.4%	6.6%	17.0%	29.6%	41.7%	53.1%	74.6%	79.0%	83.4%	87.7%	92.0%
	BRTA	68.2%	98.8%	96.9%	102.3%	66.0%	81.9%	91.0%	96.1%	99.5%	101.8%	99.9%	100.1%	100.2%	100.2%	100.2%
	BRTS	16.5%	65.9%	59.2%	95.1%	14.5%	31.2%	46.4%	57.2%	67.7%	76.7%	86.9%	89.6%	92.1%	94.8%	96.4%
AVERAGE		61.3%	92.8%	90.2%	100.9%	59.3%	74.0%	83.4%	89.2%	93.6%	96.8%	97.7%	98.3%	98.8%	99.3%	99.6%
MEDIAN		60.7%	93.6%	90.8%	101.0%	58.4%	74.0%	83.9%	89.9%	94.8%	98.3%	98.4%	99.0%	99.4%	99.7%	99.9%
MINIMUM		1.7%	39.7%	31.8%	88.5%	1.4%	6.6%	17.0%	29.6%	41.7%	53.1%	74.6%	79.0%	83.4%	87.7%	92.0%
MAXIMUM		146.6%	129.1%	132.4%	109.0%	146.7%	147.2%	140.8%	133.7%	128.4%	124.4%	113.1%	110.9%	108.6%	106.4%	104.3%